PCT/US2005/004714 AP6 Rec'd PCT/PTO 11 AUG 2006 SEQUENCE LISTING

<110>	The Rockefeller University	
<120>	Anti-MicroRNA Oligonucleotide Molecules	
<130>	1119-10 CON/PCT	
<140> <141>		
<150> <151>	US 10/845,057 2004-05-13	٠
<150> <151>	us 10/778,908 2004-02-13	
<160>	623	
<170>	PatentIn version 3.1	
<210> <211> <212> <213>	1 22 RNA Homo sapiens	
<400> aacccg	1 guaga uccgaacuug ug	22
<210> <211> <212> <213>	2 22 RNA Homo sapiens	
<400>	2	
agcagc	auug uacagggcua ug	22
<210> <211> <212> <213>	3 22 RNA Homo sapiens	
<400> ucaaau	3 gcuc agacuccugu gg	22
<210> <211> <212> <213>	4 22 RNA Homo sapiens	
<400> aaaagug	4 gcuu acagugcagg ua	22
<210> <211> <212> <213>	5 22 RNA Homo sapiens	
:400> ıaaagug	5 Joug acagugcaga ua	22

•	
	22
	22
	22
	22
en e	22
	22
	22

<210> 13 <211> 22 <212> RNA <213> Homo sapiens	
<400> 13 uuaaugcuaa ucgugauagg gg	22
<210> 14 <211> 22 <212> RNA <213> Homo sapiens	
<400> 14 aacauucaac gcugucggug ag	22
<210> 15 <211> 22 <212> RNA <213> Homo sapiens	
<400> 15 aacauucauu gcugucggug gg	22
<210> 16 <211> 22 <212> RNA <213> Homo sapiens	
<400> 16 aacauucaac cugucgguga gu	22
<210> 17 <211> 22 <212> RNA <213> Homo sapiens	
<400> 17 uuuggcaaug guagaacuca ca	22
<210> 18 <211> 22 <212> RNA <213> Homo sapiens	
<400> 18 uauggcacug guagaauuca cu	22
<210> 19 <211> 22 <212> RNA	
<213> Homo sapiens <400> 19 uggacggaga acugauaagg gu	.22
	, 4a, 4a

1119-10CON-PCT.ST25 <210> <211> 20 22 <212> RNA <213> Homo sapiens <400> uggagagaaa ggcaguuccu ga 22 <210> 21 <211> 22 <212> **RNA** <213> Homo sapiens <400> 21 caaagaauuc uccuuuuggg cu 22 <210> 22 <211> - 22 <212> **RNA** <213> Homo sapiens <400> 22 ucgugucuug uguugcagcc gg 22 <210> 23 22 <211> <212> RNA <213> Homo sapiens <400> 23 cucccacaug caggguuugc ag 22 <210> 24 <211> 22 <212> RNA <213> Homo sapiens <400> 24 caucccuugc augguggagg gu 2,2 25 22 <210> <211> <212> RNA <213> Homo sapiens <400> 25 gugccuacug agcugauauc ag 22 <210> 26 <211> 22 <212> RNA <213> Homo sapiens <400> 26 ugauauguuu gauauauuag gu 22 <210> 27

<211>	22		LUCUN-PC1.5125		
<212> <213>	RNA Homo sapiens	•		,	
<400> caacgo	27 gaauc ccaaaagca	Cu			22
<210'> <211> <212> <213>	28 22 RNA Homo sapiens				
<400> cugaco	28 uaug aauugacago	ca	t		22
<210> <211> <212> <213>	29 22 RNA Homo sapiens				· ·
<400> aacugg	29 ccua caaaguccca	gu			22
<210> <211> <212> <213>	30 22 RNA Homo sapiens				
<400> uggguc	30 uuug cgggcaagau	ga			22
<210> <211> <212> <213>	31 22 RNA Homo sapiens				
<400> uguaaca	31 agca acuccaugug	ga			. 22
<210> <211> <212> <213>	32 22 RNA Homo sapiens				
<400> uagcago	32 Caca gaaauauugg	ca			22
	33 22 RNA Homo sapiens				
	33 uuu cauguuguug	9 9			22
	34				

<212>

RNA

1119-10CON-PCT.ST25 <212> RNA <213> Homo sapiens <400> 34 uucaccaccu ucuccaccca gc 22 <210> <211> 35 22 <212> RNA <213> Homo sapiens <400> 35 gguccagagg ggagauaggu uc 22 <210> <211> <212> 36 22 RNA Homo sapiens <213> <400> 36 acaguagucu gcacauuggu ua 22 <210> <211> 37 22 <212> RNA <213> Homo sapiens <400> 37 cccaguguuc agacuaccug uu 22 <210> 38 <211> 22 <212> RNA <213> Homo sapiens <400> 38 cccaguguuu agacuaucug uu 22. <210> 39 <211> 22 <212> RNA <213> Homo sapiens <400> 39 uaacacuguc ugguaacgau gu 22 <210> 40 <211> 22 <212> RNA <213> Homo sapiens <400> 40 cucuaauacu gccugguaau ga 22 <210> 41 <211> 22

<213>	Homo sapiens	1119-10CON-PCT.ST25	
<400>	41		
aauac	ugccg gguaaugaug	ga	22
<210> <211> <212> <213>			
<400> gugaaa	42 auguu uaggaccacu	ag	22
<210> <211> <212> <213>	43 22 RNA Homo sapiens		
<400> นนcccเ	43 uuugu cauccuaugc	Cu	22
<210> <211> <212> <213>	44 22 RNA Homo sapiens		
<400> uccuuc	44 auuc caccggaguc	ug	22
<210> <211> <212> <213>	45 22 RNA Homo sapiens		
<400> uggaau	45 guaa ggaagugugu	gg	22
<210> <211> <212> <213>	46 22 RNA Homo sapiens		
<400> auaaga	46 cgag caaaaagcuu (gu	22
<210> <211> <212> <213>	47 22 RNA Homo sapiens		
<400> cugugco	47 Jugu gacagcggcu g	ga	22
<210> <211> <212> <213>	48 22 RNA Homo sapiens		

uncccnnndn canccnncdc cr	1	22
<210> 49 <211> 22 <212> RNA <213> Homo sapiens		•
<400> 49 uaacagucuc cagucacggc ca		22
<210> 50 <211> 22 <212> RNA <213> Homo sapiens		4
<400> 50 accaucgacc guugauugua cc		22
<210> 51 <211> 22 <212> RNA <213> Homo sapiens		
<400> 51 acagcaggca cagacaggca gu		22
<210> 52 <211> 22 <212> RNA <213> Homo sapiens		
<400> 52 augaccuaug aauugacaga ca		22
<210> 53 <211> 22 <212> RNA <213> Homo sapiens		
<400> 53 uaaucucagc uggcaacugu ga		22
<210> 54 <211> 22 <212> RNA <213> Homo sapiens		
<400> 54 uacugcauca ggaacugauu gg		22
<210> 55 <211> 22 <212> RNA <213> Homo sapiens		

1119-10CON-PCT.ST25 · <400> 55 uugugcuuga ucuaaccaug ug 22 <210> 56 22. <211> **<212>** RNA <213> Homo sapiens <400> 56 ugauugucca aacgcaauuc uu 22 <210> 57 22 <211> <212> RNA <213> Homo sapiens **<400> 57** ccacaccgua ucugacacuu ug 22 <210> 58 22 <211> <212> **RNA** <213> Homo sapiens **<**400> 58 . agcuacauug ucugcugggu uu 22 <210> 59 22 <211> <212> **RNA** <213> Homo sapiens <400> 59 agcuacaucu ggcuacuggg uc 22 <210> 60 <211> 22 <212> RNA <213> Homo sapiens <400> ugucaguuug ucaaauaccc ca 22 <210> 61 <211> 22 <212> RNA <213> Homo sapiens <400> 61 Caagucacua gugguuccgu uu 22 62 22 <210> <211> <212> RNA <213> Homo sapiens <400> 62

aaggagcuca cagucuauug ag	1119-10CON-PCT.ST25	22
<210> 63 <211> 22 <212> RNA <213> Homo sapiens		
<400> 63 cucaaacugu gggggcacuu uc		22
<210> 64 <211> 22 <212> RNA <213> Homo sapiens		
<400> 64 agggcccccc cucaauccug uu		22
<210> 65 <211> 22 <212> RNA <213> Homo sapiens		•
<400> 65 ugguuuaccg ucccacauac au		22
<210> 66 <211> 22 <212> RNA <213> Homo sapiens		
<400> 66 cagugcaaua guauugucaa ag		22
<210> 67 <211> 22 <212> RNA <213> Homo sapiens		
<400> 67 uaagugcuuc cauguuuugg ug		- 22
<210> 68 <211> 22 <212> RNA <213> Homo sapiens		
<400> 68 Iguaaacauc cuugacugga ag		22
<210> 69 <211> 22 <212> RNA <213> Homo sapiens		,
:400> 69 laaagcuggg uugagagggc ga		22

<210> <211>	70 22			
<212> <213>	RNA Homo sapiens		٠	
<400>	70			
uaagc	caggg auugugggu	u cg		22
<210>	71			
<211> <212>	22 RNA			
<213> <400>	Homo sapiens		•	
	71 Igaau ugcugcugua	a uc		22
<210>	72		. •	
<211> <212>	22 RNA			
<213> <400>	Homo sapiens		٠	
	72 Juaca cggucgaccu	ı cu		22
<210>	73			
<211> <212>	22 RNA			
<213>	Homo sapiens		٠.	
<400> ccacug	73 cccc aggugcugcu	ı gg		22
<210>	74			
<211> <212>	22 RNA			
<213> <400>	Homo sapiens 74			
	cccu agggcauugg	ı ug		22
<210>	75	antana di Kabupatèn Bandaran Kabupatèn Bandaran Kabupatèn Bandaran Kabupatèn Bandaran Kabupatèn Bandaran Kabup Kabupatèn Bandaran B		
<211> <212>	22 RNA			,
<211> <212> <213>	22 RNA Homo sapiens			•
<211> <212> <213>	22 RNA	cc		22
<211> <212> <213> <400> ccucug <210>	22 RNA Homo sapiens 75 ggcc cuuccuccag 76	cc		22
<211> <212> <213> <400> ccucugg <210> <211> <212>	22 RNA Homo sapiens 75 ggcc cuuccuccag 76 22 RNA	cc		22
<211> <212> <213> <400> ccucugo <210> <211> <212> <213>	22 RNA Homo sapiens 75 ggcc cuuccuccag 76 22 RNA Homo sapiens 76			22
<211> <212> <213> <400> ccucugo <210> <211> <212> <213>	22 RNA Homo sapiens 75 ggcc cuuccuccag 76 22 RNA Homo sapiens			22

<210> 77 <211> 22 <212> RNA <213> Homo sapiens		
<400> 77 aacacaccca gcuaaccuuu	uu	22
<210> 78 <211> 22 <212> RNA <213> Homo sapiens		
<400> 78 uggcaguguc uuagcugguu	gu	22
<210> 79 <211> 22 <212> RNA <213> Homo sapiens		
<400> 79 aggcaguguc auuagcugau	ug	22
<210> 80 <211> 22 <212> RNA <213> Homo sapiens		·.
<400> 80 aggcagugua guuagcugau	ug	22
<210> 81 <211> 22 <212> RNA <213> Homo sapiens		
<400> 81 uauugcacuu gucccggccu	gu	22
<210> 82 <211> 22 <212> RNA <213> Homo sapiens		
<400> 82 aaagugcugu ucgugcaggu a	ag	22
<210> 83 <211> 22 <212> RNA <213> Homo sapiens		
<400> [°] 83 Jucaacgggu auuuauugag d	ca	22

1119-10CON-PCT.ST25 84 22 <210> <211> <212> RNA <213> Homo sapiens <400> 84 uuuggcacua gcacauuuuu gc 22 85 22 <210> <211> <212> RNA <213> Homo sapiens <400> 85 ugagguagua aguuguauug uu 22 <210> 86 <211> 22 <212> RNA <213> Mouse ' <400> 86 caaagugcua acagugcagg ua 22 <210> 87 <211> 22 <212> RNA <213> Mouse <400> 87 cccuguagaa ccgaauuugu gu 22 <210> 88 <211> 22 <212> RNA <213> Mouse <400> 88 uauggcuuuu cauuccuaug ug 22 <210> 89 <211> 22 <212> RNA <213> Mouse <400> 89 ucagugcauc acagaacuuu qu 22 <210> 90 22 <211> <212> RNA <213> Mouse <400> 90 cuagacugag gcuccuugag ga 22 <210> 91

1119-10CON-PCT.ST25 <211> 22 <212> RNA <213> Mouse <400> 91 uuaaugcuaa uugugauagg gg 22 <210> <211> <212> 92 22、 RNA <213> Mouse <400> 92 cccaguguuu agacuaccug uu 22 <210> 93 <211> 22 <212> RNA <213> Mouse <400> 93 uaauacugcc ugguaaugau ga 22 <210> 94 <211> 22 <212> **RNA** <213> Mouse <400> 94 ugaaauguuu aggaccacua ga 22 <210> 95 <211> 22 <212> RNA <213> Mouse <400> .95 uucccuuugu cauccuuugc cu 22 <210> <211> 96 22 <212> RNA <213> Mouse <400> 96 uacugcauca ggaacugacu gg 22 97 22 <210> <211> <212> **RNA** <213> Mouse <400> 97 uaagucacua gugguuccgu uu 22 98 22 <210> <211>

104

22 RNA

105 22

RNA

Mouse

agugccgcag aguuuguagu gu

<210> <211> <212>

<213>

<210> <211>

<212>

<400> 104

22

1119-10CON-PCT.ST25 <212> RNA <213> Mouse <400> 98 cacuagauug ugagcugcug ga 22 <210> 99 <211> 22 <212> RNA <213> Mouse <400> 99 cucaaacuau gggggcacuu uu 22 <210> 100 <211> 22 <212> RNA <213> Mouse <400> 100 aaagugcuuc cacuuugugu gc 22 <210> 101 <211> 22 <212> RNA <213> Mouse <400> 101 caucaaagug gaggcccucu cu 22 <210> 102 <211> 22 <212> RNA <213> Mouse <400> 102 aagugccgcc agguuuugag ug 22 <210> 103 <211> 22 <212> RNA <213> Mouse <400> 103 acucaaacug ggggcucuuu ug 22

1119-10CON-PCT.ST25 <213> Mouse <400> 105 aaagugcuuc ccuuuugugu gu 22 <210> 106 <211> 22 <212> RNA <213> Mouse <400> 106 aaagugcuac uacuuuugag uc 22 <210> 107 <211> <212> 22 **RNA** <213> Mouse <400> 107 auguaugugu gcaugugcau gu 22 <210> 108 <211> 22 <212> <213> RNA Mouse <400> 108 ggcagaggag ggcuguucuu cc 22 <210> 109 <211> 22 <212> <213> **RNA** Mouse <400> 109 uaugcaaggg caagcucucu uc 22 <210> 110 <211> 22 <212> RNA <213> Mouse <400> 110 aggcaagaug cuggcauagc ug 22 <210> 111 <211> <212> 22 RNA <213> Mouse <400> 111 aaacaugaag cgcugcaaca cc 22 <210> 112 22 <211> <212> **RNA** <213> Mouse

ccuaguaggu gcucaguaag u	3	22
<210> 113 <211> 22 <212> RNA <213> Mouse		٠,
<400> 113 ccucugggcc cuuccuccag ud	:	22
<210> 114 <211> 22 <212> RNA <213> Mouse		
<400> 114 gcaaagcaca gggccugcag ag		22
<210> 115 <211> 22 <212> RNA <213> Mouse		-
<400> 115 gccccugggc cuauccuaga ac		22
<210> 116 <211> 22 <212> RNA <213> Mouse		
<400> 116 uucagcuccu auaugaugcc uu		22
<210> 117 <211> 22 <212> RNA <213> Mouse		
<400> 117 uccagcauca gugauuuugu ug		22
<210> 118 <211> 22 <212> RNA <213> Mouse		
<400> 118 ucccuguccu ccaggagcuc ac		, 22
<210> 119 <211> 22 <212> RNA <213> Mouse		

4400-	110		1119-10co	N-PCT.ST25	
<400> uccgu	cucag uuacuuuaua	gc		• •	. 22
<210> <211> <212> <213>	120 22 RNA Mouse				
<400>	120 :gguc ggucggucag	uc .			. 22
<210> <211> <212> <213>	121 22 RNA Mouse	•			
<400> ucucac	121 acag aaaucgcacc	cg		•	22
<210> <211> <212> <213>	122 22 RNA Mouse				•
<400> ugaucu	122 agcc aaagccugac	ug		•	22
<210> <211> <212> <213>	123 22 RNA Mouse	·	· .		
<400> ugcuga	123 cccc uaguccagug	cu			22
<210> <211> <212> <213>	124 22 RNA Mouse				•
<400> ugucug	124 cccg agugccugcc	uc			22
<210> <211> <212> <213>	125 22 RNA Mouse				•
<400> uaggcag	125 gugu aauuagcuga	uu			22
<210> <211> <212> <213>	126 22 RNA Mouse			· .	
<400>	126				•

1119-10CON-PCT.ST25 uucacaaagc ccauacacuu uc 22 <210> 127 <211> <212> 22 RNA <213> Mouse <400> 127 ucccugagga gcccuuugag cc 22 <210> <211> 128 22 <212> RNA <213> Mouse <400> 128 uggaagacuu gugauuuugu ug 22 129 22 <210> <211> <212> RNA <213> Mouse <400> 129 uauugcacuu gucccggccu qa 22 130 22 <210> <211> <212> RNA <213> Mouse <400> 130 caaagugcug uucgugcagg ua 22 131 22 <210> <211> <212> RNA <213> Rat <400> 131 ccuugagggg caugágggua gu 22 132 22 <210> <211> <212> RNA <213> Rat <400> 132 guggugugcu aguuacuuuu gq 22 <210> 133 <211> 22 <212> **RNA** <213> Rat <400> 133 ucaagagcaa uaacgaaaaa ug 22

<211> 2 <212> R	L34 22 RNA Rat			
	.34 Icc auaucuaguc	uc		22
<211> 2 <212> R	.35 2 · NA at			
	35 cg ugugcccagu	.au		22
<211> 2 <212> R	36 2 NA at			
	36 ug ggucgcccag	Cu		. 22
<211> 27 <212> RI	37 2 NA at			
	37 cu gucuuaaccu	cu .		22
<210> 13 <211> 22 <212> RN <213> Ra	2 NA			
<400> 13 agaguagua	ng guugcauagu	ac .		22
<210> 13 <211> 22 <212> RN <213> Ho				
<400> 13 uuaucagaa	9 u cuccaggggu	ac		22
<210> 14 <211> 22 <212> RN <213> Ho				
<400> 14 aauccuugg	0 a accuaggugu (ga		22

<210> <211> <212> <213>	141 22 RNA Homo sapiens					
<400> auugca	141 cggu auccaucugu	aa .				22
<210> <211> <212> <213>	142 22 RNA Homo sapiens					
<400> cggcgg	142 ggac ggcgauuggu	cc				22
<210> <211> <212> <213>	143 22 RNA Homo sapiens	· · · · · · · · · · · · · · · · · · ·		 •		
<400> uaaugc	143 cccu aaaaauccuu	au				22
<210> <211> <212> <213>	144 22 RNA Homo sapiens		·			
<400> uaacug	144 guug aacaacugaa	сс				22
<210> <211> <212> <213>	145 22 RNA Caenorhabditis	elegans				
<400> ugaggua	145 agua gguuguauag	uu				22
<210> <211> <212> <213>	146 22 RNA Caenorhabditis	elegans			•	• .
<400> ucccuga	146 gac cucaagugug	ag		÷		22
	147 22 RNA Caenorhabditis	elegans				
<400> . uggaaug	147 uaa agaaguaugu	ag				22

1119-10CON-PCT.ST25 <210> 148 22 <211> <212> RNA <213> Caenorhabditis elegans <400> 148 uaucacagcc agcuuugaug ug 22 <210> <211> 149 22 <212> RNA <213> Caenorhabditis elegans <400> 149 aggcagugug guuagcuggu ug 22 150 22 <210> <211> <212> RNA <213> Caenorhabditis elegans <400> 150 ucaccgggug gaaacuagca gu 22 <210> 151 <211> 22 <212> RNA <213> Caenorhabditis elegans <400> 151 ucaccgggug aaaauucgca ug 22 <210> 152 <211> 22 <212> RNA <213> Caenorhabditis elegans <400> 152 ucaccgggug aacacuugca gu . 22 <210> .153 <211> 22 <212> RNA <213> Caenorhabditis elegans <400> 153 ucaccgggag aaaaacugga gu 22 154 22 <210> <21.1> <212> RNA <213> Caenorhabditis elegans <400> 154 ucaccgggug uaaaucagcu ug 22 <210> 155

<211>	22	1113~	10CON-PC1.512	.5		
<212> <213>	RNA Caenorhabditis e	legans		·	•	
<400>	155					
ucaccg	ggug uacaucagcu a	a				22
<210> <211> <212>	156 22 RNA					
<213>		legans			·	•
<400> ucaccg	156 ggug aaaaaucacc u	a				22
<210> <211>	157 22			:		
<212> <213>	RNA Caenorhabditis e	legans				
<400> caccgg	157 guua acaucuacag ag	9				22
<210> <211> <212>	158 22 RNA		•			
<213>	Caenorhabditis el	legans				
<400> uaucaca	158 Iguu uacuugcugu co	J				22
<210> <211> <212> <213>	159 22 RNA Caenorhabditis el	egans				
<400>	•	. <u>-</u>		•		22
						22
<210> <211> <212> <213>	160 22 RNA Caenorhabditis el	egane				
<400>	160 aga cacauucagc uu					22
5 5		•				22
<211>	161 22 RNA	· .				
<213>	Caenorhabditis el	egans				
	161 gag ucgcucucuu ca					22
<210>	162 22					

	1119-10CON-PCT.ST25	
<212> RNA <213> Caenorhabditis elegans	1113 10C0N-FC1.31,23	
<400> 162 ugucauggag gcgcucucuu ca		22
<210> 163 <211> 22 <212> RNA <213> Caenorhabditis elegans		
<400> 163 ugagguaggc ucaguagaug cg		22
<210> 164 <211> 22 <212> RNA <213> Caenorhabditis elegans		
<400> 164 aagcaccacg agaagcugca ga		22
<210> 165 <211> 22 <212> RNA <213> Caenorhabditis elegans		
<400> 165 ugauaugucu gguauucuug gg		22
<210> 166 <211> 22 <212> RNA <213> Caenorhabditis elegans		•
<400> 166 Jacccguagc uccuauccau gu		22
<210> 167 <211> 22 <212> RNA <213> Caenorhabditis elegans		
<400> 167 cacccguaca uauguuuccg ug		22
210> 168 211> 22 212> RNA 213> Caenorhabditis elegans		
400> 168 acccguaca uuuguuuccg ug		22
210> 169 211> 22		

<213> Caenorhabditis elegans	1119-10CON-PCT.ST25	
<400> 169 uacccguaau cuucauaauc cg		
c canada e eg		22
<210> 170 <211> 22 <212> RNA		
<213> Caenorhabditis elegans		
<400> 170 uacccguaua aguuucugcu ga	·	22
<210> 171 <211> 22		
<212> RNA <213> Caenorhabditis elegans		
<400> 171 uacccguaau guuuccgcug ag		
3 - 3 - 49		22
<210> 172 <211> 22 <212> RNA <213> Caenorhabditis elegans		
- Cregaris		
<400> 172 uacccuguag aucgagcugu gu		22
<210> 173 <211> 22		
<212> RNA <213> Caenorhabditis elegans		
<400> 173		
ugagaucguu caguacggca au		22
<210> 174 <211> 22	•	
<212> RNA <213> Caenorhabditis elegans		
:400> 174		
cgaaucguu uaucaggaug au		22
210> 175 211> 22		
212> RNA 213> Caenorhabditis elegans		
400> 175 auuaugcac auuuucuagu uc		22
210. 176		22
210> 176 211> 22	•	
212> RNA 213> Caenorhabditis elegans		

	·· 176 agaac cguuacucau cu			22
<210> <211> <212> <213>	22 RNA	ns		
<400> ugaua	177 uguaa ucuagcuuac ag			22
<210> <211> <212> <213>	22	าร		
<400> augaca	178 acuga agcgaguugg aa			22
<210><211><211><212><213>	179 22 RNA Caenorhabditis elegan	ne		
<400>	179 cacug aagcguuacc ga	13		22
<210> <211> <212> <213>	180 22 RNA Caenorhabditis elegan	ıs		
<400>	180 cacug aagcguaacc ga			22
<210> <211> <212> <213>	181 22 RNA Caenorhabditis elegan	s		
<400> caugac	181 acug auuagggaug ug			22
<210> <211> <212> <213>	182 22 RNA Caenorhabditis elegans	s		
<400>	182 ccuc cuagaaagag ua			22
<210><211><211><212><213>	183 22 RNA			
~~ 13/	Caenorhabditis elegans	>		

<400> 183 ucgaagacuc aaaagugua	g ac	22
<210> 184 <211> 22 <212> RNA <213> Caenorhabditi	s elegans	
<400> 184 ucgaaaauua aaaagugua	g aa	. 22
<210> 185 <211> 22 <212> RNA <213> Caenorhabditi	s elegans ·	
<400> 185 uaauacgucg uugguguuu	c ca	22
<210> 186 <211> 22 <212> RNA <213> Caenorhabditis	s elegans	
<400> 186 ugaaagacau ggguagugaa	a cg	22
<210> 187 <211> 22 <212> RNA <213> Caenorhabditis	: elegans	
<400> 187 aggcaagaug uuggcauago	: ug	22
<210> 188 <211> 22 <212> RNA <213> Caenorhabditis	elegans	
<400> 188 uggcaagaug uaggcaguuc	ag	22
<210> 189 <211> 22 <212> RNA <213> Caenorhabditis	elegans	
<400> 189 uggcaagaaa uggcagucua	ca	22
<210> 190 <211> 22 <212> RNA <213> Caenorhabditis	elegans	
<400> 190	· •	

uuaaagcuac caaccggcuu ca	1119-10CON-PCT.ST25	22
<210> 191 <211> 22 <212> RNA <213> Caenorhabditis elegans		
<400> 191 uucguuguug augaagccuu ga		22
<210> 192 <211> 22 <212> RNA <213> Caenorhabditis elegans		
<400> 192 uucaucaggc cauagcuguc ca		22
<210> 193 <211> 22 <212> RNA <213> Caenorhabditis elegans		
<400> 193 uggaggccug guuguuugug cu	• • • • • • • • • • • • • • • • • • •	22
<210> 194 <211> 22 <212> RNA <213> Caenorhabditis elegans		
<400> 194 auaaagcuag guuaccaaag cu		22
<210> 195 <211> 22 <212> RNA <213> Caenorhabditis elegans		
<400> 195 agcuuucgac augauucuga ac		22
<210> 196 <211> 22 <212> RNA <213> Caenorhabditis elegans		
<400> 196 ugagaucauu aguugaaagc cg		22
<210> 197 <211> 22 <212> RNA <213> Caenorhabditis elegans		
<400> 197 Jgagaucauc gugaaagcua gu		22

<210> 198 <211> 22 <212> RNA		
<213> Caenorhabditis elegan	S	
<400> 198 ugagaucauc gugaaagcca gu	. ·	22
<210> 199 <211> 22 <212> RNA		
<213> Caenorhabditis elegans	5	
<400> 199 uagcaccaua uaaauucagu aa	•	22
<210> 200 <211> 22 <212> RNA		
<213> Caenorhabditis elegans	;	
<400> 200 ugagguagua uguaauauug ua		22
<210> 201 <211> 22 <212> RNA <213> Caenorhabditis elegans		
<400> 201 uacaaaguau uugaaaaguc gu		22
<210> 202 <211> 22 <212> RNA		
<213> Caenorhabditis elegans		
uaagugaaug cuuugccaca gu		22
<210> 203 <211> 22 <212> RNA <213> Caenorhabditis elegans		
<400> 203 gugagcaaag uuucaggugu gc		22
<pre> 210> 204 211> 22 212> RNA 213> Caenorhabditis elegans</pre>		
213> Caenorhabditis elegans 2400> 204 Igauauguug uuugaaugcc cc		
5 - 55 Samugee ee		22

<210> 205 <211> 22 <212> RNA <213> Caenorhabditis elegans	
<400> 205 uaaggcacgc ggugaaugcc ac	22
<210> 206 <211> 22 <212> RNA <213> Caenorhabditis elegans	•
<400> 206 aauggcacug caugaauuca cg	22
<210> 207 <211> 22 <212> RNA <213> Caenorhabditis elegans	
<400> 207 aaugacacug guuaucuuuu cc	22
<210> 208 <211> 22 <212> RNA <213> Caenorhabditis elegans	
<400> 208 guauuaguug ugcgaccagg ag	22
<210> 209 <211> 22 <212> RNA <213> Caenorhabditis elegans	
<400> 209 uaagcucgug aucaacaggc ag	22
<210> 210 <211> 22 <212> RNA <213> Caenorhabditis elegans	
<400> 210 uaaaugcauc uuaacugcgg ug	22
<210> 211 <211> 22 <212> RNA <213> Caenorhabditis elegans	
<400> 211 Jugagcaaug cgcaugugcg gg	22

<210>

219

1119-10CON-PCT.ST25 212 22 <210> <211> <212> RNA <213> Caenorhabditis elegans <400> uuauugcucg agaauacccu uu 22 <210> <211> 213 22 <212> RNA Caenorhabditis elegans <213> <400> 213 uauugcacuc uccccggccu ga 22 <210> <211> 214 22 <212> RNA <213> Caenorhabditis elegans <400> 214 uaauacuguc agguaaugac gc 22 <210> <211> 215 22 <212> RNA <213> Caenorhabditis elegans <400> 215 ucccugagaa uucucgaaca gc 22 216 22 <210> <211> <212> **RNA** <213> Caenorhabditis elegans <400> 216 uuuguacucc gaugccauuc ag 22 <210> <211> 217 22 <212> RNA Caenorhabditis elegans <213> <400> 217 Juuguacuac acauagguac ug 22 218 22 <210> <211> <212> RNA <213> Caenorhabditis elegans <400> 218 Juuguacuac acaaaaguac ug 22

<211> <212> <213>	22 RNA Caenorhabditis	s elegans				-
<400> uacugg	219 cccc caaaucuucg	j cu				22
<210> <211> <212> <213>	220 22 RNA Caenorhabditis	elegans		·		
<400> ugaggu	220 aggu gcgagaaaug	ac				22
<210> <211> <212> <213>	221 22 RNA Caenorhabditis	elegans				
<400> uugcgua	221 aggc cuuugcuucg	ag				22
<210> <211> <212> <213>	222 22 RNA Caenorhabditis	elegans			• .	
<400> cgguaco	222 gauc gcggcgggau	au				 22
<210> <211> <212> <213>	223 22 RNA Caenorhabditis	elegans			· · .	
<400> ucuuugg	223 Juug uacaaagugg	ua				22
<211> <212>	224 22 RNA Caenorhabditis	elegans				
<400> auugguc	224 CCC uccaaguagc	uc į				22
<211> <212>	225 22 RNA Caenorhabditis	elegans	•		•	
	225 uuu cggguaggag	cu				22
	226 22					

242		1119-10CON-PCT.ST25	
<212> <213>			
	226 agagc cuauucucuu cu		22
<210> <211> <212>	22 RNA		
<213>	3	·	• .
<400> uacac	gugca cggauaacgc uc		22
<210> <211> <212> <213>	22 RNA		
<400> ucacag	228 ggacu uuugagcguu gc		22
<210> <211> <212> <213>	22		
<400> ucacag	229 gucaa cuguuggcau gg		22
<210> <211> <212> <213>	230 22 RNA Caenorhabditis elegans		
<400> uuaagu	230 agug gugccgcucu ua		22
<210> <211> <212> <213>	231 22 RNA Caenorhabditis elegans		
<400> uaagua	231 guag ugccgcaggu aa		22
<210> <211> <212> <213>	232 22 RNA Caenorhabditis elegans		
(400> cacaccı	232 ucac uaacacugac ca		22
:210> :211> :212>	233 22		

1119-10CON-PCT.ST25 <213> Caenorhabditis elegans <400> 233 22 { ugcaaaucuu ucgcgacugu ag <210> 234 <211> 22 <212> RNA <213> Caenorhabditis elegans <400> 234 uggaaugcau agaagacugu ac 22 <210> 235 22 <211> <212> **RNA** <213> Caenorhabditis elegans <400> 235 gaguaucagg aguacccagu ga 22 <210> 236 22 <211> <212> RNA Caenorhabditis elegans <213> <400> 236 gguuuugaga ggaauccuuu ua 22 237 22 <210> <211> <212> **RNA** <213> Caenorhabditis elegans <400> 237 aguaaaucuc auccuaaucu gg 22 <210> 238 22 <211> <212> **RNA** <213> Caenorhabditis elegans <400> 238 gugaugucga acucuuguag ga 22 <210> 239 <211> 22 <212> **RNA** Caenorhabditis elegans <213> <400> 239 uagcuuuuua guuuucacgg ug 22 240 22 <210> <211> <212> **RNA** <213> Caenorhabditis elegans

<400> 240 guuucucgau gu	ииисидаи ас			22
<210> 241 <211> 22 <212> RNA <213> Caenor	habditis elegans			
<400> 241 ggcggguggu ug	uuguuaug gg			22
<210> 242 <211> 22 <212> RNA <213> Caenor	habditis elegans	·		
<400> 242 ugagggagga ag	ggugguau uu			22
<210> 243 <211> 22 <212> RNA <213> Caenorl	nabditis elegans			
<400> 243 aggcaagacu uug	ggcaaagc uu			22
<210> 244 <211> 22 <212> RNA <213> Caenorh	nabditis elegans			
<400> 244 cccgugaagu guc	cugcugca au		•	22
<210> 245 <211> 22 <212> RNA <213> Caenorh	abditis elegans			:
<400> 245 ggcaagaauu aga	agcaguu ug	ere garantza erren erre erren er Erren erren er	· · · · · · · · · · · · · · · · · · ·	22
<210> 246 <211> 22 <212> RNA <213> Caenorha	abditis elegans			
:400> 246 gcaagacuc uggo	caaaacu ug			22
210> 247 211> 22 212> RNA 213> Caenorha	abditis elegans			

1119-10CON-PCT.ST25 <400> 247 ggcaugaugu agcaguggag au -22 <210> 248 <211> 22 <212> RNA <213> Caenorhabditis elegans <400> 248 ucgccgggug ggaaagcauu cg 22 249 22 <210> <211> <212> RNA <213> Caenorhabditis elegans <400> 249 uguaggcaug gguguuugga ag 22 250 22 <210> <211> <212> RNA <213> Caenorhabditis elegans <400> 250 ugcccguacu gugucggcug cu 22 251 22 <210> <211> <212> **RNA** <213> Drosophila melanogaster <400> 251 guuaauggca cuggaagaau uc 22 <210> 252 22 <211> <212> RNA <213> Drosophila melanogaster <400>. .252 uggacggaga acugauaagg gc 22 253 22 <210> <211> <212> RNA <213> Drosophila melanogaster <400> 253 uuugugacc gacacuaacg gg 22 <210> 254 22 <211> <212> RNA Drosophila melanogaster <213> <400> 254

ucagguaccu gaaguagcgc gc	1119-10CON-PCT.ST25	22
<210> 255 <211> 22 <212> RNA <213> Drosophila melanogaster		
<400> 255 cauugcacuu gucccggccu au		22
<210> 256 <211> 22 <212> RNA <213> Drosophila melanogaster		
<400> 256 ugauugucca aacgcaauuc uu		22
<210> 257 <211> 22 <212> RNA <213> Drosophila melanogaster		
<400> 257 uaggaacuuc auaccgugcu cu		22
<210> 258 <211> 22 <212> RNA <213> Drosophila melanogaster		
<400> 258 uaaaugcacu aucugguacg ac		22
<210> 259 <211> 22 <212> RNA <213> Drosophila melanogaster		
<400> 259 ucggugggac uuucguccgu uu		22
<210> 260 <211> 22 <212> RNA <213> Drosophila melanogaster		
<400> 260 uugguccccu ucaaccagcu gu		22
<210> 261 <211> 22 <212> RNA <213> Drosophila melanogaster		
<400> 261 Jgacuagauc cacacucauu aa		22

<210> <211> <212> <213>	262 22 RNA Drosophila melanogaster		
<400> aggugca	262 uuug uagucgcauu gu		22
<210> <211> <212> <213>	263 22 RNA Drosophila melanogaster		
	263 lacg uugcauauga aa		22
<210> <211> <212> <213>	264 22 RNA Drosophila melanogaster		
	264 Igaa uugcucucuu ug	-	22
<211> <212>	265 22 RNA Drosophila melanogaster		
	265 ccu cuacuaggcu uu		22
<211> <212>	266 22 RNA Drosophila melanogaster		
	266 cag cugguaauuc ug	en de la companya de La companya de la companya del companya de la companya del companya de la c	22
<211> <212>	267 22 RNA Drosophila melanogaster		•
	267 agc aacuugauuc ca		22
<211> <212>	268 22 RNA Drosophila melanogaster		
	268 gug guuagcuggu ug		22

<210><211><212><213>	· 22 · RNA		
<400> uaagg	269 cacgc ggugaaugcc aa		22
<210> <211> <212> <213>	22 RNA		
<400> uaaag	270 cuaga uuaccaaagc au		22
<210> <211> <212> <213>	22		
<400> uaggaa	271 acuua auaccgugcu cu		22
<210> <211> <212> <213>	272 22 RNA Drosophila melanogaster		•
<400> uugugo	272 Egugu gacagcggcu au	·	22
<210> <211> <212> <213>	273 22 RNA Drosophila melanogaster		
<400> uagcac	273 cauu cgaaaucagu gc		22
<210> <211> <212> <213>	274 22 RNA Drosophila melanogaster		
<400> acccg	274 uaaa uccgaacuug ug		22
<210> <211> <212> <213>	275 22 RNA Drosophila melanogaster		
	275 acua gucccggccu gc		22

<210> 283

1119-10CON-PCT.ST25 276 22 <210> <211> RNA Drosophila melanogaster <213> <400> 276 ugacuagacc gaacacucgu gc 22 <210> <211> 277 22 <212> RNA <213> Drosophila melanogaster

	277 gaaa aud	guuugca c	:g		. •	22
<210>	278			;		

<211> <212> <213>	22 RNA Drosophila melanogaster	-	
<400> uugago	278 aaaa uuucaggugu gu		22

<210>	279			-4	•	
<211>	22					
<212>	RNA		•			
<213>	Drosophila melanogaster				*	

<400>	279					*.
		Ca				22
Cuagge	acug ggagaauuca	Cu		•		~ ~
	to the second second	•				

<210> <211>	280 22			
<212>	RNA Drosophila melanogaster			
<400>	280			

uuucau	gucg	auuucauuuc	aú				•		22
								•	
<210> <211>	281 22	•							

<212> <213>	RNA Drosophila melanogaster		
<400>	281	•	

<400> 281					
uaaauauuua	aguggagccu	gc			22
				•	
~210× 282					

<211> <212> <213>	RNA Drosophila melanogaster			
<400>	282			2-

ugayaucauu	uugaaagcug	au			24

<211>		1119-10CON-PCT.ST25	
<2115 <212> <213>	- RNA		
<400> uuuag	· 283 Iguuuc acaggaaacu gg		22
<210><211><211><212><213>	22 RNA		
<400> uggca	_		22
<210> <211> <212> <213>	22		- , .
<400> uaauci	285 ucaau uuguaaaugu ga		22
<210> <211> <212> <213>	286 22 RNA Drosophila melanogaster		
<400> auugua	286 acuuc aucaggugcu cu		22
<210> <211> <212> <213>	287 22 RNA Drosophila melanogaster		
<400> ucuuug	287 Iguau ucuagcugua ga		22
<210> <211> <212> <213>	288 22 RNA Drosophila melanogaster		
<400> ucaggu	288 acuu agugacucuc aa		22
<210> <211> <212> <213>	289 22 RNA Drosophila melanogaster		
:400> Icuuug	289 Juga uuuuagcugu au		22
210>	290		

1119-10CON-PCT.ST25 <212> RNA <213> Drosophila melanogaster <400> 290 ucccugagac ccuaacuugu ga 22 <210> 291 <211> 22 <212> RNA <213> Drosophila melanogaster <400> 291 ucacaaccuc cuugagugag cg 22 292 22 <210> <211> <212> RNA <213> Drosophila melanogaster <400> 292 aaucacagga uuauacugug ag 22 <210> 293 22 <211> <212> RNA <213> Drosophila melanogaster <400> 293 uggcaagaug ucggcauagc ug 22 294 22. <210> <211> <212> RNA <213> Drosophila melanogaster <400> 294 gcacugggua aaguuugucc ua 22 <210> 295 <211> 22 <212> RNA <213> Drosophila melanogaster <400> 295 uauugcacac uucccggccu uu 22 296 22 <210> <211> <212> RNA <213> Drosophila melanogaster <400> 296 uauugcacau ucaccggccu ga 22 297 22 <211> <212> RNA

<213> Drosophila melanogaster	1119-10CON-PCT.ST25	
<400> 297 uauugcacuu gagacggccu ga		
dadageaeda gagaeggeen ga		22
<210> 298 <211> 22 <212> RNA <213> Drosophila melanogaster		
<400> 298 uauugcacuu uucacagccc ga		22
<210> 299 <211> 21 <212> RNA <213> Drosophila melanogaster		
<400> 299 uauucgagcc aauaaguucg g		21
<210> 300 <211> 22 <212> RNA <213> Drosophila melanogaster		
<400> 300 uuuugauugu ugcucagaaa gc		22
<210> 301 <211> 22 <212> RNA <213> Drosophila melanogaster		
<400> 301 ugucuuuuuc cgcuuacugg cg		22
<210> 302 <211> 22 <212> RNA <213> Drosophila melanogaster		
<400> 302 Igaacacagc uggugguauc ca		22
<210> 303 <211> 22 <212> RNA <213> Drosophila melanogaster		· · · · · · · · · · · · · · · · · · ·
:400> 303 Icacugggcu uuguuuaucu ca		22
210> 304 211> 22 212> RNA 213> Drosophila melanogaster		

<400> uauca	· 304 ccagcc agcuuugaug gg	22
<210> <211> <212> <213>	· 22 · RNA	
<400> acgua	305 uacug aauguauccu ga	22
<210> <211> <212> <213>	22 RNA	
<400> cggua	306 uaccu ucaguauacg ua	22
<210> <211> <212> <213>	307 22 RNA Artificial	
<220> <223>	Anti-microRNA molecule	
<400> cacaag	307 guucg gaucuacggg uu	22
<210> <211> <212> <213>	308 22 RNA Artificial	
<220> <223>	Anti-microRNA molecule	
<400> cauago	308 ccug uacaaugcug cu	22
<210><211><211><212><213>	309 22 RNA Artificial	
<220> <223>	anti-microRNA molecule	
400> cacag	309 gagu cugagcauuu ga	22
210> 211> 212> 213>	310 22 RNA Artificial	•

<220> <223>		
<400> uaccug	310 gcacu guaagcacuu uu	22
<210> <211> <212> <213>	22 RNA	
<220> <223>	anti-microRNA molecule	
<400> uaucug	311 gcacu gucagcacuu ua	22
<210> <211> <212> <213>		
<220> <223>	anti-microRNA molecule	
<400> gauago	312 cccug uacaaugcug cu	22
<210> <211> <212> <213>	313 22 RNA Artificial	٠
<220> <223>	anti-microRNA molecule	-
<400> acaaau	313 Iucgg uucuacaggg ua	22
<210> <211> <212> <213>	314 22 RNA Artificial	•
<220> <223>	anti-microRNA molecule	
<400> gaaaga	314 gacc gguucacugu ga	22
<210> <211> <212> <213>	315 22 RNA Artificial	
<220> <223>	anti-microRNA molecule	
<400>	315	

augcccuuuc aucauugcac ug	22
<210> 316 <211> 22 <212> RNA <213> Artificial	
<220> <223> anti-microRNA molecule	
<400> 316 uccgugguuc uacccugugg ua	22
<210> 317 <211> 22 <212> RNA <213> Artificial	
<220> <223> anti-microRNA molecule	
<400> 317 guagugcuuu cuacuuuaug gg	22
<210> 318 <211> 22 <212> RNA <213> Artificial	
<220> <223> anti-microRNA molecule	
<400> 318 uacuagacug ugagcuccuc ga	22
<210> 319 <211> 22 <212> RNA <213> Artificial	
<220> <223> anti-microRNA molecule	
<400> 319 ccccuaucac gauuagcauu aa	22
<210> 320 <211> 22 <212> RNA <213> Artificial	•
<220> <223> anti-microRNA molecule	
<400> 320 cucaccgaca gcguugaaug uu	. 22
~210 <u>~</u> 221	

<211>		1119-10CON-PCT.ST25	
<212> <213>	RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> cccac	321 cgaca gcaaugaaug uu		22
<210> <211> <212> <213>	322 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> acucad	322 ccgac agguugaaug uu		22
<210> <211> <212> <213>	323 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> ugugag	323 Juucu accauugcca aa		22
<210> <211> <212> <213>	324 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> agugaa	324 uucu accagugcca ua		22
<210> <211> <212> <213>	325 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> acccuu	325 auca guucuccguc ca	•	22
<210> <211> <212> <213>	326 22 RNA Artificial		

<220> <223>		•	
<400> ucagga	> 326 gaacug ccuuucucuc ca		22
<210> <211> <212> <213>	> 22 > RNA		
<220> <223>			
<400> agccca	- 327 caaaag gagaauucuu ug		22
<210> <211> <212> <213>	- 22 - RNA		
<220> <223>			
<400> ccggcu	328 ugcaa cacaagacac ga		22
<210> <211> <212> <213>	22 RNA		· .
<220> <223>			
<400> cugcaa	329 aaccc ugcauguggg ag	•	22
<210> <211> <212> <213>	22 RNA		
<220> <223>	anti-microRNA molecule		
<400> acccuc	330 ccacc augcaaggga ug		. 22
<210> <211> <212> <213>	331 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400>	331		

	•	·	
cugaı	uaucag cucaguaggc ac	1119-10CON-PCT.ST25	22
<210> <211> <212> <213>	> 22 > RNA		·
<220> <223>			
<400> accua	- 332 Iauaua ucaaacauau ca		22
<210><211><212><213>	22 RNA		
<220> <223>			•
<400> agcug	333 cuuuu gggauuccgu ug		. 22
<210> <211> <212> <213>	22 RNA		
<220> <223>	anti-microRNA molecule		
<400> uggcug	334 gucaa uucauagguc ag		22
<210> <211> <212> <213>	335 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> acuggg	335 Jacuu uguaggccag uu		22
<210> <211> <212> <213>	336 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> ucaucui	336 ugcc cgcaaagacc ca		22
<210>	337		

<211>	22	1119-10CON-PCT.ST25	
<212> <213>	≻ RNA		
<220> <223>			
<400> uccac	augga guugcuguua ca		. 22
<210> <211> <212> <213>	22 RNA		
<220> <223>			
<400> ugcca	338 auauu ucugugcugc ua		22
<210> <211> <212> <213>	22		
<220> <223>	anti-microRNA molecule		
<400> cccaac	339 caaca ugaaacuacc ua		22
<210> <211> <212> <213>	340 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> gcuggg	340 ugga gaagguggug aa		22
<210> <211> <212> <213>	341 22 RNA Artificial		,
<220> <223>	anti-microRNA molecule		
	341 aucu ccccucugga cc		22
210> 211> 212> 213>	342 22 RNA		

1119-10CON-PCT.ST25 <220> <223> anti-microRNA molecule <400> 342 uaaccaaugu gcagacuacu gu 22 <210> 343 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> aacagguagu cugaacacug gg 22 <210> <211> 344 22 <212> RNA <213> Artificial ' <220> <223> anti-microRNA molecule <400> 344 aacagauagu cuaaacacug gg 22 <210> 345 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 345 acaucguuac cagacagugu ua 22 <210> 346 -<211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 346 ucauuaccag gcaguauuag ag 22 347 22 <210> <211> <212> **RNA** <213> **Artificial** <220> <223> anti-microRNA molecule <400> 347

uccaucauua cccggcagua u	uu 1119-10CON-PCT.ST25	22
<210> 348 <211> 22 <212> RNA <213> Artificial		
<220> <223> anti-microRNA mo	plecule	
<400> 348 cuaguggucc uaaacauuuc a	ıc	22
<210> 349 <211> 22 <212> RNA <213> Artificial		
<220> <223> anti-microRNA mo	lecule	
<400> 349 aggcauagga ugacaaaggg aa	a	22
<210> 350 <211> 22 <212> RNA <213> Artificial		
<220> <223> anti-microRNA mol	lecule	
<400> 350 cagacuccgg uggaaugaag ga	a.	22
<210> 351 <211> 22 <212> RNA <213> Artificial		
<220> <223> anti-microRNA mol	ecule	
<400> 351 ccacacacuu ccuuacauuc ca		22
<210> 352 <211> 22 <212> RNA <213> Artificial		,
<220> <223> anti-microRNA mole	ecule	
:400> 352 Icaagcuuuu ugcucgucuu au		22
:210> 353		

1119-10CON-PCT.ST25 <211> 22 <212> RNA Artificial <213> <220> <223> anti-microRNA molecule <400> 353 ucageegeug ucacaegeae ag 22 <210> 354 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 354 aggcgaagga ugacaaaggg aa 22 <210> <211> 355 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 355 uggccgugac uggagacugu ua 22 <210> 356 <211> 22 <212> RNA Artificial <213> <220> <223> anti-microRNA molecule <400> 356 gguacaauca acggucgaug gu 22 357 22 <210> <211> <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 357 acugccuguc ugugccugcu gu 22 <210> 358 <211> 22 <212> RNA <213> Artificial

1119-10CON-PCT.ST25 <220> <223> anti-microRNA molecule <400> 358 ugucugucaa uucauagguc au 22 <210> 359 <211> 22 <212> RNA Artificial <213> <220> <223> anti-microRNA molecule <400> 359 ucacaguugc cagcugagau ua 22 <210> 360 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 360 ccaaucaguu ccugaugcag ua 22 361 22 <210> <211> <212> RNA **Artificial** <213> <220> <223> anti-microRNA molecule <400> 361 cacaugguua gaucaagcac aa 22 <210> 362 22 <211> <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 362 aagaauugcg uuuggacaau ca 22 <210> 363 22 ₹211> <212> RNA **Artificial** <213> <220> <223> anti-microRNA molecule <400> 363

	•	1119-10CON-PCT.ST25	
caaag	Juguca gauacggugu gg		22
<210> <211> <212> <213>	22 · RNA		
<220> <223>			
<400> aaacc	364 cagca gacaauguag cu		22
<210> <211> <212> <213>	365 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		٠
<400> gaccca	365 aguag ccagauguag cu		22
<210> <211> <212> <213>	366 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> uggggu	366 Iauuu gacaaacuga ca		22
<210> <211> <212> <213>	367 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> aaacgg	367 aacc acuagugacu ug		22
<210> <211> <212> <213>	368 22 RNA Artificial		·
<220> <223>	anti-microRNA molecule		
<400> ucaaua	368 agac ugugagcucc uu		22
<210>	369		.

<213>

Artificial

1119-10CON-PCT.ST25 <211> <212> 22 RNA <213> Artificial <220> <223> anti-microRNA molecule <400> gaaagugccc ccacaguuug ag 22 <210> 370 <211> 22 <212> RNA Artificial <213> <220> <223> anti-microRNA molecule <400> 370 aacaggauug agggggggcc cu 22 <210> 371 <211> <212> 22 **RNA** <213> Artificial <220> <223> anti-microRNA molecule <400> 371 auguaugugg gacgguaaac ca 22 <210> 372 <211> <212> 22 RNA <213> Artificial: <220> <223> anti-microRNA molecule <400> 372 cuuugacaau acuauugcac ug 22 373 22 <210> <211> <212> RNA Artificial <213> <220> <223> anti-microRNA molecule <400> 373 caccaaaaca uggaagcacu ua 22 <210> 374 22 <211> <212> RNA

1119-10CON-PCT.ST25 <220> <223> anti-microRNA molecule <400> 374 cuuccaguca aggauguuua ca 22 375 <210> 22 <211> <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 375 ucgcccucuc aacccagcuu uu 22 <210> 376 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 376 cgaacccaca aućccuggcu ua 22 377 22 <210> <211> <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 377 gauacagcag caauucaugu uu 22 378 22 <210> <211> <212> RNA. <213> Artificial <220> <223> anti-microRNA molecule <400> 378 agaggucgac cguguaaugu gc 22 <210> 379 <211> <212> 22 RNA Artificial <213> <220> <223> anti-microRNA molecule <400> 379

ccaqc	agcac cuggggcagu gg	1119-10CON-PC1.5125	22
9	· ·		22
<210> <211> <212> <213>	380 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> caccaa	380 augcc cuaggggaug cg		22
<210> <211> <212> <213>	381 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> ggcugg	381 agga agggcccaga gg		22
<210> <211> <212> <213>	382 22 RNA Artificial		
.<220> <223>	anti-microRNA molecule		
<400> acggaa	382 gggc agagagggcc ag		22
<210> <211> <212> <213>	383 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> aaaaag	383 guua gcugggugug uu		22
<210> <211> <212> <213>	384 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> acaacca	384 Igcu aagacacugc ca		22
210	205		

<211> <212>	22 RNA	1119-10CON-PCT.ST25	
<213>	Artificial		
<220> <223>	anti-microRNA molecule		
<400> caauca	385 agcua augacacugc cu		22
<210> <211> <212> <213>	22 RNA		
<220> <223>	anti-microRNA molecule	•	
<400> caauca	386 agcua acuacacugc cu		22
<210> <211> <212> <213>	387 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> acaggo	387 Cggg acaagugcaa ua		22
<210> <211> <212> <213>	388 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> cuaccu	388 gcac gaacagcacu uu		22
<210> <211> <212> <213>	389 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> ugcucaa	389 auaa auacccguug aa		22 .
<210> <211> <212> <213>	390 22 RNA Artificial		

1119-10CON-PCT.ST25 <220> <223> anti-microRNA molecule <400> 390 gcaaaaaugu gcuagugcca aa 22 391 <210> <211> 22 <212> RNA Artificial <213> <220> <223> anti-microRNA molecule <400> 391 aacaauacaa cuuacuaccu ca 22 <210> 392 <211> 22 <212> RNA <213× Artificial <220> <223> anti-microRNA molecule <400> 392 uaccugcacu guuagcacuu ug 22 <210> 393 <211> <212> 22 RNA <213> Artificial <220> anti-microRNA molecule <223> <400> 393 acacaaauuc gguucuacag gg 22 394 22 <210> <211> <212> P.NA <213> Artificial <220> <223> anti-microRNA molecule <400> 394 cacauaggaa ugaaaagcca ua 22 <210> 395 <211> 22 <212> **RNA** <213> Artificial <220> <223> anti-microRNA molecule <400> 395

acaaaguucu gugaugcacu ga	1113 10001-701.3123	22
<210> 396 <211> 22 <212> RNA <213> Artificial		
<220> <223> anti-microRNA molecule		
<400> 396 uccucaagga gccucagucu ag		. 22
<210> 397 <211> 22 <212> RNA <213> Artificial		
<220> <223> anti-microRNA molecule		
<400> 397 ccccuaucac aauuagcauu aa		22
<210> 398 <211> 22 <212> RNA <213> Artificial		
<220> <223> anti-microRNA molecule		
<400> 398 aacagguagu cuaaacacug gg		22
<210> 399 <211> 22 <212> RNA <213> Artificial		
<220> <223> anti-microRNA molecule		
<400> 399 ucaucauuac caggcaguau ua		22
<210> 400 <211> 22 <212> RNA <213> Artificial		
<220> <223> anti-microRNA molecule		
<400> 400 Icuagugguc cuaaacauuu ca		22
210> 401		-,

1119-10CON-PCT.ST25 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 401 aggcaaagga ugacaaaggg aa 22 <210> 402 <211> 22 <212> RNA Artificial <213> <220> anti-microRNA molecule <223> <400> 402 ccagucaguu ccugaugcag ua 22 403 <210> <211> 22 <212> RNA Artificial <213> <220> <223> anti-microRNA molecule <400> 403 aaacggaacc acuagugacu ua 22 <210> <211> 404 22 <212> **RNA** Artificial <213> <220> <223> anti-microRNA molecule <400> 404 uccagcagcu cacaaucuag ug 22 405 <210> <211> 22 <212> RNA <213> Artificial. <220> <223> anti-microRNA molecule <400> 405 aaaagugccc ccauaguuug ag 22 <210> 406 22 <211> <212> RNA Artificial <213>

1119-10CON-PCT. ST25 <220> <223> anti-microRNA molecule <400> 406 gcacacaaag uggaagcacu uu 22 <210> 407 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 407 agagaggcc uccacuuuga ug 22 <210> 408 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 408 cacucaaaac cuggcggcac uu 22 <210> 409 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 409 caaaagagcc cccaguuuga gu 22 <210> 410 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 410 acacuacaaa cucugcggca cu 22 <210> 411 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 411

acacacaaaa gggaagcacu uu	1119-10CON-PCT.ST25	22
<210> 412 <211> 22 <212> RNA <213> Artificial		
<220> <223> anti-microRNA molecule		
<400> 412 gacucaaaag uaguagcacu uu		22
<210> 413 <211> 22 <212> RNA <213> Artificial		
<220> <223> anti-microRNA molecule		·
<400> 413 acaugcacau gcacacauac au		22
<210> 414 <211> 22 <212> RNA <213> Artificial		
<220> <223> anti-microRNA molecule		
<400> 414 ggaagaacag cccuccucug cc		22
<210> 415 <211> 22 <212> RNA <213> Artificial		
<220> <223> anti-microRNA molecule		
<400> 415 gaagagagcu ugcccuugca ua		22
<210> 416 <211> 22 <212> RNA <213> Artificial		
<220> <223> anti-microRNA molecule		
:400> 416 cagcuaugcc agcaucuugc cu		22
210> 417		

1119-10CON-PCT.ST25 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 417 gguguugcag cgcuucaugu uu 22 <210> 418 <211> 22 <212> RNA <213> Artificial <220> anti-microRNA molecule <223> <400> 418 cacuuacuga gcaccuacua gg 22 <210> <211> 419 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 419 gacuggagga agggcccaga gg 22 <210> 420 22 <211> <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 420 cucugcaggc ccugugcuuu gc 22 <210> 421 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 421 guucuaggau aggcccaggg gc 22 422 <210> <211> <212> 22 RNA Artificial <213>

1119-10CON-PCT.ST25 <220> <223> anti-microRNA molecule <400> 422 aaggcaucau auaggagcug aa 22 <210> 423 <211> 22 <212> RNA Artificial <213> <220> <223> anti-microRNA molecule <400> 423 caacaaauc acugaugcug ga 22 <210> 424 <211> <212> 22 RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 424 gugagcuccu ggaggacagg ga 22 <210> 425 <211> <212> 22 RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 425 gcuauaaagu aacugagacg ga 22 <210> 426 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 426 gacugaccga ccgaccgauc ga 22 <210> 427 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 427

cgggugcgau uucuguguga ga	1119-10CON-PCT.ST25	22
<210> 428 <211> 22 <212> RNA <213> Artificial		
<220> <223> anti-microRNA molecule		
<400> 428 cagucaggcu uuggcuagau ca		22
<210> 429 <211> 22 <212> RNA <213> Artificial		•
<220> <223> anti-microRNA molecule		
<400> 429 agcacuggac uaggggucag ca		22
<210> 430 <211> 22 <212> RNA <213> Artificial		
<220> <223> anti-microRNA molecule		
<400> 430 gaggcaggca cucgggcaga ca		22
<210> 431 <211> 22 <212> RNA <213> Artificial		
<220> <223> anti-microRNA molecule		
<400> 431 aaucagcuaa uuacacugcc ua		22
<210> 432 <211> 22 <212> RNA <213> Artificial		
<pre><220> <223> anti-microRNA molecule</pre>		
<400> 432 gaaaguguau gggcuuugug aa	·	22
210 433		

<211> 22 <212> RNA

<213> Artificial

1119-10CON-PCT.ST25 <211> 22 <21.2> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 433 ggcucaaagg gcuccucagg ga 22 <210> 434 <211> <212> 22 RNA <213> Artificial <220> anti-microRNA molecule <223> <400> 434 caacaaauc acaagucuuc ca 22 435 22 <210> <211> <212> RNA Artificial <213> <220> <223> anti-microRNA molecule <400> 435 ucaggccggg acaagugcaa ua 22 <210> 436 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 436 uaccugcacg aacagcacuu ug 22 <210> 437 22 <211> <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 437 acuacccuca ugccccucaa gg 22 <210> 438

<220> <223>				
<400> ccaaa	438 aguaa cuagcacacc ac			22
<210> <211> <212> <213>	22 RNA			
<220> <223>	anti-microRNA molecule		•	
<400> cauuu	439 uucgu uauugcucuu ga			22
<210> <211> <212> <213>	22			
<220> <223>	anti-microRNA molecule			
	440 Jagau auggaagggu ga			22
<210> <211> <212> <213>	441 22 RNA Artificial			
<220> <223>	anti-microRNA molecule			
<400> auacug	441 ggca cacggaggga ga	•		22
<220> <223>	anti-microRNA molecule		-	
<400> agcugg	442 gcga cccagaggga ca			22
<210> <211> <212> <213>	443 22 RNA Artificial			٠
<220> <223>	anti-microRNA molecule			
<400>	443			

agagg	uuaag acagcagggc ug	1119-10C0N-PC1.5125	22
<210> <211> <212> <213>	22 RNA		٠
<220> <223>	anti-microRNA molecule		
<400> guacua	444 augca accuacuacu cu		22
<210> <211> <212> <213>	445 22 RNA Artificial	· .	
<220> <223>	anti-microRNA molecule		
<400> guacco	445 cugg agauucugau aa		22
<210> <211> <212> <213>	.446 22 RNA Artificial		·
<220> <223>	anti-microRNA molecule		
<400> ucacac	446 cuag guuccaagga uu		22
<210> <211> <212> <213>	447 22 RNA Artificial		
<220> <223>	anti-microRNA molecule	en e	
<400> uuacaga	447 augg auaccgugca au		22
<210> <211> <212> <213>	448 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
	448 aucg ccguccccgc cg		22
·210\			

1119-10CON-PCT.ST25 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 449 auaaggauuu uuaggggcau ua 22 450 <210> <211> 22 <212> RNA Artificial <213> <220> <223> anti-microRNA molecule <400> 450 gguucaguug uucaaccagu ua 22 <210> 451 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 451 aacuauacaa ccuacuaccu ca 22 <210> 452 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule cucacacuug aggucucagg ga 22 453 22 <210> <211> <212> <213> RNA Artificial <220> <223> anti-microRNA molecule <400> 453 cuacauacuu cuuuacauuc ca 22 <210> 454 22 <211> <212> **RNA** Artificial <213>

1119-10CON-PCT.ST25 <220> <223> anti-microRNA molecule <400> 454 cacaucaaag cuggcuguga ua 22 455 <210> <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 455 laaccagcua accacacuge cu 22 <210> 456 <211> 22 <212> RNA <213> Artificial <220> anti-microRNA molecule <223> :400> 456 icugcuaguu uccacceggu ga 22 :210> 457 :211> 22 :212> RNA Artificial :213> :220> :223> anti-microRNA molecule :400> 457 augcgaauu uucacccggu ga 22 :210> 458 :211> 22 RNA :213> Artificial :220> :223> anti-microRNA molecule :400> 458 icugcaagug uucacccggu ga 22 :210> 459 :211> :212> 22 **RNA** :213> Artificial :220> :223> anti-microRNA molecule :400> 459

acuccaguuu uucucccggu ga	1119-10CON-PCT.ST25		22
<210> 460 <211> 22 <212> RNA <213> Artificial		•	
<220> <223> anti-microRNA molecule	·		
<400> 460 caagcugauu uacacccggu ga			22
<210> 461 <211> 22 <212> RNA <213> Artificial		2	
<220> <223> anti-microRNA molecule			
<400> 461 uuagcugaug uacacccggu ga		· ·	22
<210> 462 <211> 22 <212> RNA <213> Artificial			
<220>	•		
<400> 462 uaggugauuu uucacccggu ga			22
<210> 463 <211> 22 <212> RNA <213> Artificial			
<220> <223> anti-microRNA molecule			
<400> 463 cucuguagau guuaacccgg ug			22
<210> 464 <211> 22 <212> RNA <213> Artificial			
<220> <223> anti-microRNA molecule			
:400> 464 :gacagcaag uaaacuguga ua			22
:210> 465			

J211v	22	1119-10CON-PCT.ST25	
<211> <212> <213>	22 RNA Artificial	•	
<220> <223>	anti-microRNA molecule		
<400> aagcug	465 gaaug ugucucuagu ca	·	22
<210> <211> <212> <213>	466 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> aagcug	466 Jaaug ugucucuagu ca		22
<210> <211> <212> <213>	467 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		•
<400> ugaaga	467 gagc gacuccauga ca		22
<210> <211> <212> <213>	468 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> Jgaaga	468 gagc gccuccauga ca		22
<210> <211> <212> <213>	469 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> :gcauci	469 uacu gagccuaccu ca		22
<210> <211> <212>	470 22 RNA		

<220> <223>	anti-microRNA molecule		200011	C1.3125		
<400> ucugca	470 Igcuu cucguggugc uu		•			22
<210> <211> <212> <213>	471 22 RNA Artificial					
<220> <223>	anti-microRNA molecule					
<400> cccaag	471 Jaaua ccagacauau ca					22
<210> <211> <212> <213>	472 22 RNA Artificial		•			-
<220> <223>	anti-microRNA molecule					
<400> acaugg	472 auag gagcuacggg ua					22
<210> <211> <212> <213>	473 22 RNA Artificial					
<220> <223>	anti-microRNA molecule	-		-		
<400> cacgga	473 aaca uauguacggg ug					22
<210> <211> <212> <213>	474 22 RNA Artificial	-	. •			
<220> <223>	anti-microRNA molecule					
<400> cacgga	474 aaca aauguacggg ug					22
<210> <211> <212> <213>	475 22 RNA Artificial				٠.	
<220> <223>	anti-microRNA molecule	•				
<400>	475					

cggauı	uauga agauuacggg ua	1119-10CON-PCT.ST25	22
<210> <211> <212> <213>	476 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> ucagca	476 Igaaa cuuauacggg ua		22
<210> <211> <212> <213>	477 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> cucago	477 ggaa acauuacggg ua		22
<210> <211> <212> <213>	478 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> acacag	478 cucg aucuacaggg ua		22
<210> <211> <212> <213>	479 22 RNA Artificial		
<220> <223>	anti-microRNA molecule	and the second of the second o	
<400> auugcc	479 guac ugaacgaucu ca		22
<210> <211> <212> <213>	480 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> aucauco	480 cuga uaaacgauuc ga		22
<210>	481		

401Ts	າງ .	1119-10CON-PCT.ST25	
<211> <212> <213>	RNA.		
<220> <223>	anti-microRNA molecule		
<400> gaacu	481 agaaa augugcauaa ua		2
<210> <211> <212> <213>	22 RNA		
<220> <223>	anti-microRNA molecule		
<400> agauga	482 aguaa cgguucuagu ca		22
<210> <211> <212> <213>	483 22 RNA Artificial		
<220> <223>	anti-microRNA molecule	• • • • • • • • • • • • • • • • • • •	
<400> cuguaa	483 gcua gauuacauau ca		22
<210> <211> <212> <213>	484 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> uuccaa	484 cucg cuucaguguc au		22
<210> <211> <212> <213>	485 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> ıcggua	485 acgc uucaguguca ua		22
<210><211><211><212><213>	486 22 RNA Artificial		

1119-10CON-PCT.ST25 <220> <223> anti-microRNA molecule <400> 486 ucgguuacgc uucaguguca ua 22 <210> 487 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 487 cacaucccua aucaguguca ug 22 <210> 488 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 488 uacucuuucu aggagguugu ga 22 <210> 489 22 <211> <212> RNA Artificial <213> <220> <223> anti-microRNA molecule <400> 489 gucuacácuu uugagucuuc ga 22 <210> 490 22 <211> <212> RNA Artificial <213> <220> <223> anti-microRNA molecule <400> 490 uucuacacuu uuuaauuuuc ga 22 <210> 491 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 491

uggaa	acacc aacgacguau ua	1113	100011	r C1 . 3	123	•	22
<210> <211> <212> <213>	22 RNA						
<220> <223>	anti-microRNA molecule				٠.		
<400> cguuc	492 acuac ccaugucuuu ca						22
<210> <211> <212> <213>	493 22 RNA Artificial			•			
<220> <223>	anti-microRNA molecule						
<400> cagcua	493 augcc aacaucuugc cu						22
<210> <211> <212> <213>	494 22 RNA Artificial						
<220> <223>	anti-microRNA molecule		•				
<400> cugaac	494 ugcc uacaucuugc ca	•					22
<210> <211> <212> <213>	495 22 RNA Artificial				,		
<220> <223>	anti-microRNA molecule						
<400> uguaga	495 cugc cauuucuugc ca						22
<210> <211> <212> <213>	496 22 RNA Artificial			·		•	
<220> <223>	anti-microRNA molecule						٠.
<400> ugaagco	496 cggu ugguagcuuu aa						22
. 210	407						

1119-10CON-PCT.ST25 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 497 ucaaggcuuc aucaacaacg aa 22 <210> 498 <211> 22 <212> RNA <213> Artificial <220> anti-microRNA molecule <223> <400> 498 uggacagcua uggccugaug aa 22 <210> 499 <211> 22 <212> RNA <213> **Artificial** <220> <223> anti-microRNA molecule <400> 499 agcacaaaca accaggccuc ca 22 <210> 500 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 500 agcuuuggua accuagcuuu au 22 <210> 501 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 501 guucagaauc augucgaaag cu 22 502 22 <210> <211> <212> RNA <213> Artificial

<pre><220> <223> anti-microRNA molecule <400> 502 cggcuuucaa cuaaugaucu ca <210> 503 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 503 </pre>	22
<pre>cggcuuucaa cuaaugaucu ca <210> 503 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 503</pre>	22
<211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 503	
<223> anti-microRNA molecule <400> 503	
acuagcuuuc acgaugaucu ca	22
<210> 504 <211> 22 <212> RNA <213> Artificial	
<220> <223> anti-microRNA molecule	
<400> 504 acuggcuuuc acgaugaucu ca	22
<210> 505 <211> 22 <212> RNA <213> Artificial	
<220> <223> anti-microRNA molecule	
<400> 505 uuacugaauu uauauggugc ua	22
<210> 506 <211> 22 <212> RNA <213> Artificial	
<220> <223> anti-microRNA molecule	
<400> 506 uacaauauua cauacuaccu ca 2	2
<210> 507 <211> 22 <212> RNA <213> Artificial	-
<220> <223> anti-microRNA molecule	
<400> 507	

acga	uuuuc aaauacuuug ua	1119-10CON-PCT.ST25	22
<210> <211> <212> <213>	22 RNA		
<220> <223>		e	
<400> acugu	508 ggcaa agcauucacu ua		2 2
<210> <211> <212> <213>	509 22 RNA Artificial		
<220> <223>	anti-microRNA molecule	e	
<400> gcaca	509 ccuga aacuuugcuc ac		2 2
<210> <211> <212> <213>	510 22 RNA Artificial		
<220> <223>	anti-microRNA molecule	<u>:</u>	
<400> ggggca	510 uuca aacaacauau ca		2 2
<210> <211> <212> <213>	511 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> guggca	511 uuca ccgcgugccu ua		22
<210> <211> <212> <213>	512 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> :gugaai	512 Juca ugcagugcca uu		22
<210>	513		

<211>	22	1119-10CON-PCT.ST25	
<212> <213>	RNA		
<220> <223>			
<400> ggaaa	513 agaua accaguguca uu		22
<210> <211> <212> <213>	22 RNA		
<220> <223>	anti-microRNA molecule		
<400> cuccu	514 ggucg cacaacuaau ac		22
<210> <211> <212> <213>	22		
<220> <223>	anti-microRNA molecule		
<400> cugccเ	515 Iguug aucacgagcu ua		22
<210> <211> <212> <213>	516 22 RNA Artificial		: :
<220> <223>	anti-microRNA molecule		
	516 aguu aagaugcauu ua		22 .
<210> <211> <212> <213>	517 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> cccgca	517 caug cgcauugcuc aa		22
<210> <211> <212> <213>	518 22 RNA Artificial	·	

<220> <223>	anti-microRNA molecule			·	
<400> aaaggg	518 guauu cucgagcaau aa			, 22	
<210> <211> <212> <213>	519 22 RNA Artificial				
<220> <223>	anti-microRNA molecule				
<400> ucaggo	519 ccggg gagagugcaa ua		·	22	
<210> <211> <212> <213>	520 22 RNA Artificial				
<220> <223>	anti-microRNA molecule				
<400> gcguca	520 uuac cugacaguau ua	•		22	
<210> <211> <212> <213>	521 22 RNA Artificial				
<220> <223>	anti-microRNA molecule				
<400> gcuguu	521 cgag aauucucagg ga			22	
<210> <211> <212> <213>	522 22 RNA Artificial			·	
<220> <223>	anti-microRNA molecule	•			
<400> cugaau	522 ggca ucggaguaca aa			. 22	
<210> <211> <212> <213>	523 22 RNA Artificial				
<220> <223>	anti-microRNA molecule				
<400>	523				
1.	and the second s				

cagu	accuau guguaguaca aa	1119-10CON-PCT.ST25	22
<210: <211: <212: <213:	> 22 > RNA		
<220: <223:	> > anti-microRNA molecule		
<400 cagua	≻ 524 acuuuu guguaguaca aa		22
<210> <211> <212> <213>	· 22 · RNA		
<220> <223>			
<400> agcga	525 agauu ugggggccag ua		22
<210> <211> <212> <213>	22		
<220> <223>	anti-microRNA molecule		
<400> gucauı	526 Jucuc gcaccuaccu ca		22
<210> <211> <212> <213>			
<220> <223>	anti-microRNA molecule		
<400> cucgaa	527 gcaa aggccuacgc aa		22
<210> <211> <212> <213>	528 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> auaucc	528 cgcc gcgaucguac cg		22
<210>	529		
			•

<211> <212> <213>	RNA	1119-10CON-PCT.ST25	
<220> <223>		· · · · · · · · · · · · · · · · · · ·	
<400>	529 cuuug uacaaccaaa ga		22
<210> <211> <212> <213>	530 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> gagcua	530 acuug gaggggacca au		22
<210> <211> <212> <213>	22	· · · · · · · · · · · · · · · · · · ·	
<220> <223>	anti-microRNA molecule		
<400> agcuco	531 uacc cgaaacaugu aa		22
<210><211><211><212><213>	532 22 RNA Artificial		•
<220> <223>	anti-microRNA molecule		
<400> agaaga	532 gaau aggcucuagu ca		22
<210> <211> <212> <213>	533 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		•
<400> jagcgui	533 uauc cgugcacgug ua		22
:210> :211> :212> :213>	534 22 RNA Artificial		-

	•	1119-10CON-PCT.ST25	
<220> <223>	anti-microRNA molecule	·	
<400> gcaaco	534 gcuca aaaguccugu ga	·	22
<210> <211> <212> <213>	535 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> ccaugc	535 caac aguugacugu ga		22
<210> <211> <212> <213>	536 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> uaagag	536 cggc accacuacuu aa		22
<210> <211> <212> <213>	537 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
	537 Icgg cacuacuacu ua		22
<211> <212>	538 22 RNA Artificial		• •
<220> <223>	anti-microRNA molecule		
	538 ugu uagugaggug ug		22
<211> 2 <212> F	539 22 RNA Artificial		
<220> <223> a	anti-microRNA molecule		
<400> 5	i39		

cuaca	igucgc gaaagauuug ca	22
<210> <211> <212> <213>	22 RNA	
<220> <223>		
<400> guaca	540 gucuu cuaugcauuc ca	22
<210> <211> <212> <213>	22 RNA	
<220> <223>	anti-microRNA molecule	
<400> ucacu	541 gggua cuccugauac uc	22
<210> <211> <212> <213>	542 22 RNA Artificial	
<220> <223>	anti-microRNA molecule	•
<400> uaaaag	542 Igauu ccucucaaaa cc	22
<210> <211> <212> <213>	543 22 RNA Artificial	
<220> <223>	anti-microRNA molecule	
<400> ccagau	543 uagg augagauuua cu	22
<210> <211> <212> <213>	544 22 RNA Artificial	
<220> <223>	anti-microRNA molecule	
:400> Iccuaca	544 aaga guucgacauc ac	22
210>	545	

1119-10CON-PCT.ST25 <211> <212> 22 RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 545 caccgugaaa acuaaaaagc ua 22 <210> 546 22 <211> <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 546 guaucagaaa acaucgagaa ac 22 <210> 547 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 547 cccauaacaa :caaccacccg cc 22 <210> 548 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 548 aaauaccacc cuuccucccu ca 2,2 <210> 549 22 <211> <212> **RNA** <213> Artificial <220> <223> anti-microRNA molecule <400> 549 aagcuuugcc aaagucuugc cu 22 550 22 <210> <211> <212> RNA <213> Artificial

1119-10CON-PCT.ST25 <220> <223> anti-microRNA molecule <400> 550 auugcagcag acacuucacg gg 22 551 22 <210> <211> <212> <213> RNA Artificial · <220> <223> anti-microRNA molecule <400> 551 caaacugcuu cuaauucuug cc 22 <210> 552 <211> 22 <212> RNA <213> Artificial <220> anti-microRNA molecule <223> <400> 552 caaguuuugc cagagucuug cc 22 553 22 <210> <211> <212> RNA Artificial <213> <220> <223> anti-microRNA molecule <400> 553 aucuccacug cuacaucaug cc 22 <210> 554 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 554 cgaaugcuuu cccacccggc ga 22 555 22 <210> <211> <212> RNA Artificial <213> <220> <223> anti-microRNA molecule <400> 555

cuuc	caaaca cccaugccua ca	TTT9-TOCON-PC1.5125	22
<210><211><211><212><213>	> 22 > RNA		
. <220> <223>	anti-microRNA molecule		
<400> agcag	556 ccgac acaguacggg ca		22
<210> <211> <212> <213>	22 RNA		
<220> <223>			٠
<400> gaauu	557 cuucc agugccauua ac	· ·	22
<210> <211> <212> <213>	558 22 RNA Artificial		•
<220> <223>	anti-microRNA molecule	·	
<400> gcccuเ	558 Jauca guucuccguc ca		22
<210> <211> <212> <213>	559 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> cccguu	559 agug ucggucacaa aa		22
<210> <211> <212> <213>	560 22 RNA Artificial		
<220> . <223>	anti-microRNA molecule		
<400> gcgcgci	560 uacu ucagguaccu ga		22
<210>	561		

<211>	22	1119-10con-pct.st25	
<212> <213>	RNA		
<220> <223>			
<400> auagg	561 ccggg acaagugcaa ug		22
<210> <211> <212> <213>	22	· ·	·
<220> <223>	anti-microRNA molecule		
<400> aagaaı	562 uugcg uuuggacaau ca		22
<210> <211> <212> <213>	563 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> agagca	563 Icggu augaaguucc ua		22
<210> <211> <212> <213>	564 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> gucgua	564 ccag auagugcauu ua		22 .
<210> <211> <212> <213>	565 22 RNA Artificial		J
<220> <223>	anti-microRNA molecule		
<400> aacgga	565 acga aagucccacc ga		22
(210> (211> (212> (213>	566 22 RNA Artificial		

1119-10CON-PCT.ST25 <220>, <223> anti-microRNA molecule <400> 566 acagcugguu gaaggggacc aa 22 <210> 567 22 <211> <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 567 uuaaugagug uggaucuagu ca 22 <210> 568 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 568 acaaugcgac uacaaugcac cu 22 <210> 569 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 569 uuucauaugc aacguaaaua ca 22 <210> 570 <211> <212> 22 RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 570 caaagagagc aauuccauga ca 22 <210> 571 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 571

aaagc	cuagu agaggcuaga uu	TTTA-TOCON-bC	1.5125	22
<210><211><212><213>	22 RNA			
<220> <223>				
<400> cagaa	572 uuacc agcugauauu ua			22
<210> <211> <212> <213>	22 RNA			
<220> <223>	anti-microRNA molecule			
<400> uggaai	573 Icaag uugcugacuu ca			22
<210> <211> <212> <213>	574 22 RNA Artificial			*
<220> <223>	anti-microRNA molecule	·		
<400> caacca	574 gcua accacacugc ca			22
<210> <211> <212> <213>	575 22 RNA Artificial			
<220> <223>	anti-microRNA molecule			• •
<400> uuggca	575 uuca ccgcgugccu ua			22
<210> <211> <212> <213>	576 22 RNA Artificial			
<220> <223>	anti-microRNA molecule			
<400> augcuui	576 uggu aaucuagcuu ua			22
<210>	577			

<211> <212> <213>	RNA	1119-10CON-PCT.ST25	
<220> <223>			
<400> agagc	577 acggu auuaaguucc ua		22
<210> <211> <212> <213>	22 RNA		
<220> <223>	anti-microRNA molecule		
<400> auagc	578 cgcug ucacacgcac aa		22
<210> <211> <212> <213>	579 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> gcacug	579 gauuu cgaauggugc ua		22
<210> <211> <212> <213>	580 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> cacaag	580 uucg gauuuacggg uu		22
<210> <211> <212> <213>	581 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> gcaggc	581 cggg acuagugcaa uu		22 -
<210> <211> <212> <213>	582 22 RNA Artificial		

1119-10CON-PCT.ST25 <220> <223> anti-microRNA molecule <400> 582 gcacgagugu ucggucuagu ca-22 <210> 583 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 583 cgugcaaacg auuuucaaca ca 22 584 22 <210> <211> <212> RNA Artificial <213> <220> <223> anti-microRNA molecule <400> 584 acacaccuga aauuuugcuc aa 22 585 22 <210> <211> <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 585 ugugaauucu cccagugcca ag 22 <210> 586 <211> 22 <212> RNA Artificial <213> <220> <223> anti-microRNA molecule <400> 586 augaaaugaa aucgacauga aa 22 <210> <211> 587 22 <212> RNA Artificial <213> <220> <223> anti-microRNA molecule <400> 587

gcaggo	cucca cuuaaauauu ua	1119-10CON-PC1.5125	22
	•	·	
<210> <211> <212> <213>	588 22 RNA Artificial		•
<220> <223>	anti-microRNA molecule		
<400> aucago	588 cuuuc aaaaugaucu ca		22
<210> <211> <212> <213>	589 22 RNA Artificial		
<220> <223>	anti-microRNA molecule	•	
<400> ccaguu	589 uccu gugaaaccua aa		
<210> <211> <212> <213>	590 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> cagcua	590 uucc gacaucuugc ca		22
<210> <211> <212> <213>	591 22 RNA Artificial		
<220> <223>	anti-microRNA molecule	en er en	· . · · · · · · · · · · · · · · · · · ·
<400> นcacaนเ	591 uuac aaauugagau ua		22
<210> <211> <212> <213>	592 22 RNA Artificial		
<220> <223>	anți-microRNA molecule		
<400> agagcac	592 Ccug augaaguaca au		22
~210×	503	•	

<211> <212> <213>	RNA	1119-10CON-PCT.ST25	
<220> <223>			
<400> ucuac	593 agcua gaauaccaaa ga		22
<210> <211> <212> <213>	594 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> uugaga	594 aguca cuaaguaccu ga		22
<210> <211> <212> <213>	595 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> auacag	595 Cuaa aaucaccaaa ga		22
<210> <211> <212> <213>	596 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> ucacaa	596 guua gggucucagg ga		22
<210> <211> <212> <213>	597 22 RNA Artificial		
<220> <223>	anti-microRNA molecule		
<400> cgcuca	597 cuca aggagguugu ga		22
<210> <211> <212> <213>	598 22 RNA Artificial		

<220>	>	1119-10CON-PCT.ST25	-
<223>			
<400> cucao	> 598 caguau aauccuguga uu	·	22
<210><211><212><213>	> 22 > RNA		
<220> <223>			
<400> cagcu	599 Jaugec gacaucuuge ea		22
<210> <211> <212> <213>	22 RNA		
<220> <223>	anti-microRNA molecule		
<400> uagga	600 caaac uuuacccagu gc		22
<210> <211> <212> <213>			
<220> <223>	anti-microRNA molecule		
<400> aaaggo	601 ccggg aagugugcaa ua		22
<210> <211> <212> <213>	602 22 RNA Artificial		.
<220> <223>	anti-microRNA molecule		
<400> ucaggo	602 cggu gaaugugcaa ua		22
<210> <211> <212> <213>	603 22 RNA Artificial		•
:220> :223>	anti-microRNA molecule		
400>	603		

	•	1119-10CON-PCT.ST25	
ucago	gccguc ucaagugcaa ua		22
<210>			
<211> <212>	→ 22 → RNA		
<213>	Artificial		
<220>			
<223>			
<400>		•	
ucggg	cugug aaaagugcaa ua		22
<210>	605		
<211>	21		
<212>	RNA Artificial		
<220> <223>		·	
<400>			
ccyaa	cuuau uggcucgaau a		21
<210>	606		
<211>	22		
<212> <213>	RNA Artificial	•	
<220> <223>	anti-microRNA molecule	•	
	606 Eugag caacaaucaa aa		22
			22
<210>	607		
<211> <212>	22 RNA	.	
<213>	Artificial		
<220>			1
<223>	anti-microRNA molecule		. · <u>.</u>
<400>			
	uaag cggaaaaaga ca		22
<210>	608		
<210> <211>	608 22	·	
<212>	RNA		•
	Artificial		
<220> <223>	anti-microRNA molecule	•	
	•		
<400>	608 ccac cagcuguguu ca		
23			22
<210>	609		

23

1119-10CON-PCT.ST25 <211> 22 <212> RNA <213> Artificial <220> anti-microRNA molecule <223> <400> ugagauaaac aaagcccagu ga 22 <210> <211> 610 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 610 cccaucaaag cuggcuguga ua 22 <210> 611 <211> <212> <213> 22 RNA Artificial <220> <223> anti-microRNA molecule <400> 611 ucaggauaca uucaguauac qu 22 <210> 612 <211> 22 <212> RNA <213> Artificial <220> <223> anti-microRNA molecule <400> 612 uacguauacu gaagguauac cg <210> 613 <211> 23 <212> RNA <213> Artificial <220> 2'-O-methyl microRNA molecule <223> <220> <221> misc_structure (23)..(23) 3' aminolinker attached to the a nucleotide at position 23 <222> <223> <400> 613 gucaacauca gucugauaag cua

```
<210>
         614
  <211>
         21
  <212>
         RNA
         Artificial
  <213>
 <220>
 <223> 2'-O-methyl antisense molecule
 <220>
 <221>
         misc_structure
         (21)..(21)
3' aminolinker attached to the u nucleotide at position 21
 <222>
 <400> 614
 aaggcaagcu gacccugaag u
                                                                             21
 <210>
        615
 <211>
        21
 <212>
        RNA
 <213> Artificial
 <220>
 <223> 2' 0- methyl reverse sequence
 <220>
        misc_structure
(21)..(21)
3' aminolinker attached to the a nucleotide at position 21
 <221>
<222>
 <400> 615
 ugaaguccca gucgaacgga a
                                                                             21
<210>
        616
 <211> 26
 <212>
        DNA
 <213> Artificial
<220>
<223>
        2'-deoxy microRNA molecule
<220>
        misc_structure
<221>
<222>
        (26)..(26)
3' aminolinker attached to the g nucleotide at position 26
<400> 616
gtcaacatca gtctgataag ctagcg
                                                                            26
<210>
        617
<211>
<212>
        24
        DNA
       Artificial
<213>
<220>
<223> 2'-deoxy antisense molecule
<220>
```

<221>	1119-10CON-PCT.ST25	
<222>		
<223>		
	617 aagct gaccctgaag tgcg	24
<210> <211> <212> <213>	88 DNA	·
<220> <223>		
<400> gaaca	618 attgc ttttacagat gcacatatcg aggtgaacat cacgtacgtc aacatcagtc	60
	agcta tcggttggca gaagctat	88
<210> <211> <212> <213>	619 90 DNA Artificial	
<220> <223>	primer	
<400> ggcata	619 aaaga attgaagaga gttttcactg catacgacga ttctgtgatt tgtattcagc	60
	tcgtt tcatagcttc tgccaaccga	90
<210> <211> <212> <213>	620 35 DNA Artificial	
<220> <223>	primer	
<400> aatac	620 gact cactatagaa caattgcttt tacag	35
<210><211><212><213>	621 35 DNA Artificial	
:220> :223>	primer	
400> tttag	621 gtga cactataggc ataaagaatt gaaga	35
210> 211>	622 33	-

<213>	Artificial	1119-10CON-PCT.ST25	
<220> <223>	synthetic oligonucleotide	e molecule	
<400> ggcctca	622 aaca tcagtctgat aagctaggta	ı cct	33 ,
<210> <211> <212> <213>	623 33 DNA Artificial		
<220> <223>	synthetic oligonucleotide	e molecule	
	623 ptac ctagcttatc agactgatgt	tga	33

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

BLACK BORDERS

IMAGE CUT OFF AT TOP, BOTTOM OR SIDES

FADED TEXT OR DRAWING

BLURRED OR ILLEGIBLE TEXT OR DRAWING

SKEWED/SLANTED IMAGES

COLOR OR BLACK AND WHITE PHOTOGRAPHS

GRAY SCALE DOCUMENTS

LINES OR MARKS ON ORIGINAL DOCUMENT

REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

IMAGES ARE BEST AVAILABLE COPY.

☐ OTHER:

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.